## anti-TNBC agent-6

Cat. No.:	HY-158108	
Molecular Formula:	$C_{28}H_{18}F_6N_3O_2PPt^-$	
Molecular Weight:	768.51	
Target:	Autophagy; Ferroptosis; Reactive Oxygen Species	I [
Pathway:	Autophagy; Apoptosis; Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κ B	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	



Product Data Sheet

BIOLOGICAL ACTIVITY				
Description	anti-TNBC agent-6 (compoun agent-6 induces autophagy a shows anti tumor activity and	nd pt-3) is a potent anti-TNBC agent. anti-TNBC agent-6 shows cytotoxic activity. anti-TNBC nd ferroptosis. anti-TNBC agent-6 enhances intracellular ROS accumulatio. anti-TNBC agent-6 d has the potential for the research of breast cancer <sup>[1]</sup> .		
In Vitro	anti-TNBC agent-6 (compoun anti-TNBC agent-6 (2 μM; 0, 1 dependent manner in MDA-M anti-TNBC agent-6 (2 μM; 0, 1 manner <sup>[1]</sup> . anti-TNBC agent-6 (1, 2 μM) in anti-TNBC agent-6 (2 μM) enh MCE has not independently c Cell Cytotoxicity Assay <sup>[1]</sup>	nti-TNBC agent-6 (compound pt-3) (48 h) shows cytotoxic for MDA-MB-231, MCF-7, B16-F10, SK-OV-3, WI-38 cells <sup>[1]</sup> . nti-TNBC agent-6 (2 μM; 0, 12, 24, 36, 48 h) induce autophagy by increases the expression of Beclin-1, LC3-II in a time ependent manner in MDA-MB-231 cells <sup>[1]</sup> . nti-TNBC agent-6 (2 μM; 0, 12, 24, 36, 48 h) induces ferroptosis by decreases the expression of GPX4 in a time dependent nanner <sup>[1]</sup> . nti-TNBC agent-6 (1, 2 μM) increases MDA content in MDA-MB-231 cells in a dose dependent manner <sup>[1]</sup> . nti-TNBC agent-6 (2 μM) enhances intracellular ROS accumulation and increases the labile iron pool (LIP) within cells <sup>[1]</sup> . ICE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Cell Line:	A549, A549/CDDP cells		
	Concentration:	0-28 μΜ		
	Incubation Time:	48 h		
	Result:	Showed cytotoxic activity with $IC_{50}s$ of 2.84, 4.12 $\mu M$ for A549, A549/CDDP cells, respectively.		
	Western Blot Analysis <sup>[1]</sup>			
	Cell Line:	MDA-MB-231 cells		
	Concentration:	2 μΜ		
	Incubation Time:	0, 12, 24, 36, 48 h		
	Result:	Increased the expression of Beclin-1, LC3-II in a time dependent manner.		
In Vivo	anti-TNBC agent-6 (10 mg/kg model <sup>[1]</sup> .	; i.p.; on days 0, 3, 6, 9, 12, 15, and 18) shows anti tumor activity in MDA-MB-231 xenograft		



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Animal Model:	25 g, 5 weeks, female KM mice (MDA-MB-231 xenograft model) $^{[1]}$	
Dosage:	10 mg/kg	
Administration:	I.p.; on days 0, 3, 6, 9, 12, 15, and 18	
Result:	Significantly inhibited tumor growth compared to the vehicle controls, elicited an inhibition rates of tumor growth (IRT) as high as 65.3%.	

## REFERENCES

[1]. Wang FY, et al. Cycloplatinated (II) Complex Based on Isoquinoline Alkaloid Elicits Ferritinophagy-Dependent Ferroptosis in Triple-Negative Breast Cancer Cells. J Med Chem. 2024 Mar 25.

Caution: Product has not been fully validated for medical applications. For research use only.

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